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Patent
Attorney's Docket No. 032735-003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of)
Yasushi SHIGEMORI et al.) Group Art Unit: 1636
Application No.: 09/607,361) Examiner: K. Katcheves
Filed: June 30, 2000) Confirmation No.: 9813
For: LIGATION OF DOUBLE-STRANDED)
DNAs)

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AMENDMENT TRANSMITTAL LETTER

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is an Amendment for the above-identified patent application.

- ☒ A Petition for Extension of Time is also enclosed.
- ☐ A Terminal Disclaimer and the ☐ \$55.00 (2814) ☐ \$110.00 (1814) fee due under 37 C.F.R. § 1.20(d) are also enclosed.
- ☒ Also enclosed is/are Replacement Figures 1-13 (13 Sheets)
- ☐ Small entity status is hereby claimed.
- ☐ Applicant(s) requests continued examination under 37 C.F.R. § 1.114 and enclose the ☐ \$375.00 (2801) ☐ \$750.00 (1801) fee due under 37 C.F.R. § 1.17(e).
- ☐ Applicant(s) requests that any previously unentered after final amendments not be entered. Continued examination is requested based on the enclosed documents identified above.
- ☐ Applicant(s) previously submitted ___, on ___, for which continued examination is requested.
- ☐ Applicant(s) requests suspension of action by the Office until at least ___, which does not exceed three months from the filing of this RCE, in accordance with 37 C.F.R. § 1.103(c). The required fee under 37 C.F.R. § 1.17(i) is enclosed.

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claim 1 (Currently amended): A method of ligating a double-stranded end of a double-stranded DNA and a single-stranded end of another double-stranded DNA, wherein the method comprises:

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- a) contacting, in the presence of a homologous recombinant protein, the single-stranded end of said other double-stranded DNA and the double-stranded end of said double-stranded DNA, wherein said double-stranded DNA comprises a sequence that is homologous to the nucleotide sequence of said single-stranded end, to form a three-stranded structure comprising said single-stranded end and said double-stranded end, and
 - b) completing the ligation by converting the three-stranded structure into a double-stranded structure by inserting the DNA complex comprising the three-stranded structure into cells and replicating it therein.

Claim 2 (Previously presented): The method of ligation of claim 1, wherein said three-stranded DNA structural complex is a circular DNA complex having a three-stranded